## WHAT IS CLAIMED IS:

1	1. A method of managing a computer database, comprising the steps of:
2	importing data into a database residing on a computer system;
3	constructing a schema object to represent a schema of the database; and
4	manipulating the database using an aggregate classifier based on the schema
5	object.
1	2. The method of Claim 1 wherein said constructing step includes the steps of
2	defining a plurality of classifier definitions corresponding to the schema of the
3	database; and
4	mapping the classifier definitions to columns and tables in the database.
1	3. The method of Claim 2 wherein said defining step defines a "property"
2	classifier which interacts with a single column on a single table in the database.
1	4. The method of Claim 3 wherein said defining step further defines an
2	"object" classifier which contains one or more of the "property" classifiers.
1	5. The method of Claim 3 wherein said defining step defines a "split-object"
2	classifier which makes more than one "object" classifier appear as a single classifier.
1	6. The method of Claim 5 wherein said defining step further defines a "join"
2	classifier which identifies how multiple "object" classifiers database objects are
3	linked in a "split-object" classifier.
1	7. The method of Claim 5 wherein said defining step defines a "mapped
2	property" classifier as a special form of the "split-object" classifier to manage data
3	stored in a table of the database which serves as an index to another database table.
1	8. The method of Claim 2 wherein said defining step defines a parameterized

classifier which is a template for classifiers that are instantiated when associated

parameters are provided.

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1	9. The method of Claim 1 further comprising the steps of:
2	modifying the schema of the database;
3	constructing a second schema object for the modified database; and
4	manipulating the modified database using the second schema object.
1	10. The method of Claim 9 wherein said step of constructing the second
2	schema object includes the step of re-writing classification definitions stored on the
3	computer system.
1	11. The method of Claim 1 wherein said constructing step includes the step of
2	writing classification definitions stored on the computer system using a field-based
3	language.
1	12. The method of Claim 11 wherein said writing step uses XML.
1	13. The method of Claim 1 wherein said constructing step includes the step of
2	writing classification definitions stored on the computer system.
1	14. The method of Claim 13 wherein said importing step parses an import file
2	to import the data.
1	15. The method of Claim 13 wherein said manipulating step includes the step
2	of an application, residing on the computer system, interacting with a composite
3	object included in the classification definitions.
1	16. The method of Claim 1 wherein said manipulating step includes the step of
2	generating a SQL SELECT query using the query generator.
1	17. The method of Claim 1 wherein said manipulating step includes the step of
2	generating a SQL INSERT query using the query generator.

generating a SQL UPDATE query using the query generator.

18. The method of Claim 1 wherein said manipulating step includes the step of

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1	19. The method of Claim 1 wherein said manipulating step includes the step
2	of generating a SQL DELETE query using the query generator.
1	20. The method of Claim 16 wherein said generating step includes the step of

an aggregate classifier interrogating the schema object to determine how different

21. A computer system comprising:

classifiers correspond to columns and tables in the database.

- memory means storing a database, and storing program instructions adapted to
  construct a schema object to represent a schema of the database, and
  manipulate the database using an aggregate classifier based on the
  schema object; and
  means for processing the program instructions.
  - 22. The computer system of Claim 21 wherein the program instructions define a plurality of classifiers corresponding to the schema of the database, and map the classifiers to tables in the database.
  - 23. The computer system of Claim 20 wherein the program instructions further define a "property" classifier which interacts with a single column on a single table in the database.
  - 24. The computer system of Claim 23 wherein the program instructions further define an "object" classifier which contains one or more of the "property" classifiers.
- 25. The computer system of Claim 22 wherein the program instructions further define a "split-object" classifier which makes more than one "object" classifier appear as a single classifier.
- 26. The computer system of Claim 25 wherein the program instructions further define a "join" classifier which identifies how multiple "object" classifiers are linked in a "split-object" classifier.

- 27. The computer system of Claim 25 wherein the program instructions further define a "mapped property" classifier as a special form of the "split-object" classifier to manage data stored in a table of the database which serves as an index to another database table.
- 28. The computer system of Claim 22 wherein the program instructions further define a parameterized classifier which is instantiated when associated parameters are provided.
- 29. The computer system of Claim 21 wherein the program instructions construct a second schema object when a structure of the database is modified.
  - 30. The computer system of Claim 29 wherein the program instructions construct the second schema object by re-writing classification definitions stored in the memory means.
- 31. The computer system of Claim 21 wherein the program instructions construct the schema object by writing classification definitions stored on the computer system using a field-based language.
- 32. The computer system of Claim 21 wherein the program instructions
   generate a SQL SELECT query using the query generator.
- 33. The method of Claim 21 wherein said manipulating step includes the step
   of generating a SQL INSERT query using the query generator.
- 34. The method of Claim 21 wherein said manipulating step includes the step
   of generating a SQL UPDATE query using the query generator.
- 1 35. The method of Claim 21 wherein said manipulating step includes the step 2 of generating a SQL DELETE query using the query generator.

1	36. The computer system of Claim 32 wherein the program instructions further
2	direct an aggregate classifier to interrogate the schema object to determine how
3	different classifiers correspond to columns and tables in the database.

- 37. The computer system of Claim 21 wherein the program instructions construct a composite object to interact with an application program residing in said memory means.
- 38. A computer program product comprising:
  a computer-readable storage medium; and
  program instructions stored on said storage medium for constructing a schema
  object to represent a schema of the database residing on a computer
  system, and manipulating the database using an aggregate classifier
  based on the schema object.
  - 39. The computer program product of Claim 38 wherein the program instructions define a plurality of classifiers corresponding to the schema of the database, and map the classifiers to tables in the database.
- 40. The computer program product of Claim 39 wherein the program instructions further define a "property" classifier that interacts with only a single column on a single table in the database.
- 41. The computer program product of Claim 40 wherein the program instructions further define an "object" classifier which contains one or more of the "property" classifiers
- 42. The computer program product of Claim 39 wherein the program
  instructions further define a "split-object" classifier which makes more than one
  "object" classifier appear as a single classifier.

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1	43. The computer program product of Claim 42 wherein the program
2	instructions further define a "join" classifier which identifies how multiple "object
3	classifiers" are linked in a "split-object" classifier.

- 44. The computer program product of Claim 42 wherein the program instructions further define a "mapped property" classifier as a special form of the "split-object" classifier to manage data stored in a table of the database which serves as an index to another database table.
- 45. The computer program product of Claim 39 wherein the program instructions further define a parameterized classifier which is instantiated when associated parameters are provided.
  - 46. The computer program product of Claim 38 wherein the program instructions construct a second schema object when a structure of the database is modified.
  - 47. The computer program product of Claim 46 wherein the program instructions construct the second schema object by re-writing classification definitions stored on the computer system.
- 48. The computer program product of Claim 38 wherein the program instructions construct the schema object by writing classification definitions stored on the computer system using a field-based language.
- 49. The computer program product of Claim 38 wherein the program
   instructions generate a search query using the schema object.
- 50. The computer program product of Claim 49 wherein the program instructions further direct an aggregate classifier to interrogate the schema object to determine locations of different classifiers in the database.

- 1 51. The computer program product of Claim 38 wherein the program
- 2 instructions construct a composite object to interact with an application program
- 3 residing on the computer system.